

1242 Ohio Northern

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Teaching Staff, 1970-71. Professors 5, associate professors 1, assistant professors 4, additional part-time 3. **Total:** 13. Men full time 9, part time 3; women full time 1. **Degrees held:** 1 doctorate, 7 master's, 5 professional.

Enrollment, Fall 1970: First-professional 189; men full time 179, part time 9; women full time 1.

Ohio State University

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Columbus, Ohio 43210
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Ohio State University, a coeducational state university and land-grant college, comprises the main campus at Columbus and 2-year regional campuses at Marion, Mansfield, Newark, and Lima. At Columbus, bachelor's degree programs are offered in 10 colleges: Arts and Sciences (comprising the Colleges of the Arts, Biological Sciences, Humanities, Mathematics and Physical Sciences, and Social and Behavioral Sciences), Administrative Science, Agriculture and Home Economics, Education, Engineering, and Pharmacy. All freshmen on the Columbus campus and 4 regional campuses enroll in University College until they attain sophomore or junior standing. First-professional degree programs are conducted by the Colleges of Dentistry, Law, Medicine, Optometry, and Veterinary Medicine. Graduate programs in all undergraduate and professional colleges are administered by the Graduate School.

The 4 regional campuses emphasize freshman and sophomore instruction but also offer baccalaureate programs in elementary education in addition to other credit and noncredit courses meeting local community needs. The university's Division of Continuing Education coordinates noncredit conferences, seminars, and workshops. Graduate-level extension programs are conducted at Ohio State University Graduate Center, Wright-Patterson Air Force Base, Dayton. The university operates the Ohio Agriculture Research and Development Center and the Agricultural Technical Institute at Wooster. The Center for Motivation and Human Abilities was established in 1970; Centers for Undergraduate International Studies and for Bio-Medical Engineering in 1971; National Center on Educational Media and Materials for the Handicapped in 1972.

Accreditation: NCA: architecture, business, chemistry, dental hygiene, dentistry, engineering (aeronautical and astronautical, agricultural, ceramic, chemical, civil, electrical, engineering physics, industrial, mechanical, metallurgical, welding), journalism (news-editorial, public relations), landscape architecture, law, medical technology, medicine, music, nursing, occupational therapy, optometry, pharmacy, physical therapy, psychology (clinical, counseling), social work, speech pathology and audiology, teacher education (elementary, secondary, school service personnel), veterinary medicine.

History. Established 1862; chartered as Ohio Agricultural and Mechanical College 1870; first instruction at college level 1873; first baccalaureate awarded and present name adopted 1878.

Governing Board. 9 trustees appointed by governor and approved by state senate; 9-year terms.

Calendar. Quarter system. Regular session late September to mid-June. Freshmen admitted September, January, March, June. Degrees conferred June, September, December, March. Summer quarter of two concurrent 5-week terms, late June to late August.

Characteristics of Freshmen, 1970-71. All students: 40% ranked in top fifth of secondary school class, 29% in second fifth, 17% in third fifth, 10% in fourth fifth, 4% in bottom fifth. Mean ACT scores: 22.20 composite, 19.92 English, 22.71 mathematics, 22.91 natural sciences, 21.94 social sciences, 7 National Merit Scholars. 96% of applicants accepted. 91% of entering freshmen came from within state.

Admission. Rolling admissions plan. For fall acceptance, applications may be submitted as early as October 1 of previous year but not later than May 1 of year of enrollment. **Requirements:** Graduation from accredited secondary school with 15 units, 4 units English, 2 in a foreign

language, 2 mathematics (in addition to general mathematics), 2 science (in addition to general science), social studies electives (including American history and government) recommended. ACT program. See specific college for additional requirements. **For transfer students:** GPA for in-state transfers 2.00 (2.25 in teacher education program); out-of-state transfers 2.50. Maximum credit toward baccalaureate from correspondence or extension 30 quarter hours.

College credit and advanced placement given for college-level work completed in secondary school on basis of CEEB Advanced Placement Examinations, CLEP, or university proficiency tests. Secondary school seniors may enroll in courses on the Columbus campus or a regional campus.

Degree Requirements. *For all bachelor's degrees:* 196-217 quarter hours; GPA 2.0; 45-hour residence. See specific college for additional degree requirements. Maximum amount of degree credit allowed toward baccalaureate from CLEP 45 quarter hours. **Grading system:** A-E; pass-no pass option in 30 quarter hours for undergraduate and continuing education students with GPA 2.0.

Special Universitywide Academic Programs. Most colleges offer honors work including special courses, tutorial programs, independent study, and thesis. Most also offer combined baccalaureate-master's degree programs for outstanding students. Students in top 3% of secondary school class may participate in the freshman scholar program. Interdisciplinary programs include black studies, history of science and philosophy and area studies for East Asia, Latin America, Near and Middle East, and Slavic and East Europe. Among the campus's 50 centers for research and teaching are those for interdisciplinary programs in education, national security, disaster research, nutrition, polar studies, biomedical engineering, medieval and Renaissance studies, and human resource research. 4 computer centers serve research and teaching needs. Computer-assisted instruction. Closed-circuit television system; university listening center. A 440-station dial-access telephone system, allows students to hear tape-recorded lessons on 96 subjects; AM and FM radio stations and TV studio are located in the Telecommunications Center. Library has computerized circulation system. About 30 study-tour programs are offered each spring in Europe, Africa, Japan, Mexico. Cooperative agricultural programs have been established in Brazil, India, and Uganda.

The university houses headquarters for the Ohio Cooperative Extension Service, Ohio College Association, Ohio College Library Center, Ohio State Regional Medical Program, American Playwrights Theatre, American Association for the Advancement of Slavic Studies, Council of Educational Facility Planners, National Association of Educational Broadcasters, University Film Association, Ohio Biological Survey, World Health Organization International Reference Center (vectors). Member of the Association of American Universities, Committee on Institutional Cooperation.

ROTC. Army, Navy, Air Force optional for 2 or 4 years. 479 commissions awarded 1970-71.

Graduate Work. See specific college and Graduate School.

Degrees Conferred. Year ending June 30, 1971: bachelor's 6,425 (B.A. 1,237, B.S. 699, B.A.A.E. 21, B.A. in Jour. 75, B.Agr.E. 1, B.Arch. 35, B. Art Educ. 49, B.C.E. 13, B.Cer.E. 5, B.Ch.E. 27, B.E.E. 41, B.F.A. 131, B.I.E. 27, B.Land.Arch. 6, B.M.E. 29, B.Met.E. 4, B.Mus. 13, B.Mus.Edu. 52, B.S.A.A.E. 55, B.S. in Agr. 450, B.S.Agr.E. 16, B.S. All'd Hlth.Prof. 12, B.S. in Arch. 22, B.S. in Bus.Adm. 662, B.S.C.E. 45, B.S.C.I.S. 36, B.S.Cer.E. 6, B.S.Ch.E. 1, B.S. in Dairy Tech. 4, B.S.E.E. 46, B.S.E.P. 19, B.S. in Edu. 1,701, B.S. in Food Tech. 12, B.S. in H.E. 235, B.S.I.E. 45, B.S.Ind.Des. 15, B.S. in Land.Arch. 2, B.S.M.E. 49, B.S. in Med.Diet. 15, B.S. in Med.Illus. 4, B.S. in Med.Tech. 22, B.S. in Met.E. 1, B.S. in Nurs. 146, B.S. in Nutrition 5, B.S. in Occ.Ther. 18, B.S. in Phar. 50, B.S. in Phys. 3, B.S. in Phys.Ther. 44, B.S. in Rest.Mgt. 9, B.S. in Soc.Wel. 197, B.W.E. 11); postbaccalaureate 12 (C.E. 10, I.E. 1, M.E. 1); first-professional 554 (D.D.S. 147, D.V.M. 81, J.D. 127, M.D. 157, O.D. 42); master's 1,944 (M.A. 964, M.S. 689, M.Acc. 3, M.Arch. 4, M.B.A. 120, M.C.P. 23, M.F.A. 21, M.Mus. 13, M.P.A. 3, M.S. in Pub.Adm. 1, M. Social Work 103); doctorates 676 (Ph.D.). Certificates 102. Honorary 16 (L.H.D. 4, Dr.Sci. 5, Dr.Pub.Admin. 1, Dr. of Laws 5, D.Litt. 1). Of those receiving baccalaureates, 5% expected to continue in graduate or professional schools.

Fees, 1971-72. Full-time tuition for state residents \$240 a quarter, out-

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of-state students \$590. Part-time tuition (up to 6 hours) for state residents \$120 a quarter, out-of-state students \$295. Application \$10; acceptance \$25. Room and board about \$1,236 a year. Average rent for institutional married-student housing \$90 a month. See specific college for additional fees.

Student Financial Aid, 1970-71. 15,000 undergraduate and first-professional students received aid. Scholarships and grants 5,254, from \$50 to \$1,500, total \$2,713,197; applications close March 15. Loans 9,198, from \$50 to \$2,500, total \$3,339,185. College-assigned jobs 3,000, average value \$100, total \$981,567.

About 3,770 graduate students received aid. Fellowships 885, average value from \$2,400 to \$2,800 (plus dependency allowance), total about \$2,301,000; teaching, administrative, laboratory, and research associates 1,376, average value \$368 a month, total about \$6,080,000; administrative, laboratory, and teaching assistantships 1,509, average value \$283 a month, total about \$5,100,000. Loans 600, from \$50 to \$2,500, total about \$600,000.

Teaching Staff, 1970-71. Total: 2,742. Men full time 1,992, part time 335; women full time 356, part time 59. Degrees held: 1,427 doctorates, 798 master's, 90 bachelor's, 427 professional.

Enrollment. Data include Division of Continuing Education. *Fall 1970:* 51,324. Undergraduate 40,731: lower division men full time 14,490, part time 564; lower division women full time 9,954, part time 659; upper division men full time 8,206, part time 379; upper division women full time 5,346, part time 356. 91% of undergraduates came from within state. Transfer students: 2,246. Lower division men 1,046, women 840; upper division men 90, women 118. In-state men 1,022, women 928; out-of-state men 141, women 155. First-professional 2,809: men full time 2,616, part time 7; women full time 185, part time 1. Graduate 7,784: men full time 4,029, part time 1,411; women full time 1,491, part time 853. *Summer 1970:* 17,622.

Foreign Students, 1970-71. 1,046. Africa (sub-Saharan) 55, Australia 19, Canada 116, East Asia 270, Europe 134, Latin America 108, Middle East and North Africa 95, South Asia 191, Southeast Asia 58. 20 scholarships totaling \$25,000 held by undergraduate foreign students. University offers 20 scholarships specifically designated for undergraduate foreign students.

Student Life. University's 26 residence halls (capacity 11,489) house 30% of students. 9 coed dorms house 3,013 men and 3,277 women. Single freshmen and sophomores under 21 who do not live with parents or close relatives are required to room and board in university-owned facilities. 10% of men join and 4% live in 43 fraternities; 7% of undergraduate women join and 4% live in 21 sororities. 4 other university-affiliated scholarship houses. 400 university apartments provide housing for married students. Intercollegiate athletics: football, basketball, baseball, ice hockey, swimming (Big Ten Conference). Cars permitted; \$18 fee. University sponsors visiting artists, travel and cultural film series, drama, dance concerts, vocal and instrumental groups, speakers, symposia. University is located in Columbus (metropolitan pop. 916,228).

Publications. University bulletins, April; summer quarter bulletin, February. Alumni magazine, *The Ohio State University Monthly*, *East Lakes Geographer*, annually; *Journal of Money, Credit and Banking*, *Geographical Analysis*, *University Film Association Journal*, *American Association for the Advancement of Slavic Studies Newsletter*, quarterly; *Journal of Higher Education*, 9 times a year; *Educational Broadcasting Review*, *News in Engineering*, *Council of Education Facility Planners Journal*, bimonthly; *Theory into Practice*, *Bulletin of Business Research*, *Journal of Chemical Education*, monthly. *Current Digest of the Soviet Press*, weekly. University press published 20 titles in 1970.

Library (estimated). 2,507,126 volumes; 21,000 current periodicals; 40,000 microfilm reels; 700,000 other units of microtext. 450,962 volumes added, \$5,839,012 spent on books and periodicals 1967-68-1970-71. **Special collections:** Russian and Polish books; collections on Shakespeare, Homer, American literature including works by and about Hawthorne; works of Nelson Algren, Samuel Beckett and the Theater of the Absurd, Caroline to Restoration drama, Cervantes (*Don Quixote*), Hart Crane, Dylan Thomas, James Thurber, Edith Wharton; "Wright" fiction; book-plate literature; German Reformation pamphlets; Herd Books; "Little" magazines; science fiction magazines; secondary school curricula (charters); sheet music (including Fanny Arms).

Finances, 1970-71. Total revenues \$235,219,079: educational and gen-

eral \$149,064,062 (student tuition and fees \$41,590,858, government appropriations \$59,934,295, endowment income \$800,211, gifts \$1,403,226, sponsored research \$2,271,938, other separately budgeted research \$21,010,804, other sponsored programs \$7,158,618, recovery of indirect costs \$3,348,951, sales and services of educational departments \$6,329,110, organized activities relating to educational departments \$2,774,560, other sources \$2,441,491); student aid \$2,958,070; major service programs \$56,362,247; auxiliary enterprises \$26,834,700. Total expenditures \$233,754,317: educational and general \$140,716,860; student aid \$9,898,723; major public service programs \$54,663,749; auxiliary enterprises \$28,474,985. Net addition to operating reserves \$1,464,762. Net addition to plant during fiscal year \$31,361,002. Book value of endowment assets \$50,540,653, market value \$43,605,723.

Buildings and Grounds. 6,571 acres including 3,668 at Columbus. Total replacement value buildings, grounds, equipment \$700,000,000. **New construction:** Biological sciences building, medical science administration building, medical basic science building, Fawcett Center for Tomorrow, all completed 1970; Learning Resources Center, School of Allied Medical Professions building, both completed 1971; University College academic building, health sciences library, River Union and drama facility, mental retardation center, addition to College of Dentistry building, Agricultural Technical Institute at Wooster, all completed 1972; veterinary medicine comparative medical teaching and research facility, ambulatory patient teaching facility, both scheduled to be completed 1973. **Distinctive buildings:** 15-building medical complex, University College buildings on west campus, Columbus; Fawcett Center for Tomorrow, with 98 guest rooms and conference facilities; Mershon Auditorium, setting for university's Great Artist series, seats 3,072; FAA-operated airport control tower; 80,000-seat stadium; Orton Hall (1893) constructed with 40 kinds of native Ohio stone arranged in layers relative to positions as they occur in the bedrock of the state; Hayes Hall (1893), first Ohio college building designed for manual, domestic, and technical training; Van de Graaf accelerator laboratory; instruction and research computer center; satellite communications laboratory; 13-floor main library.

Administration. *President.* Harold Enarson. Undergraduates address admission inquiries to *Assistant to the Director of Undergraduate Admissions*; graduate students address inquiries to *Assistant Director of Graduate Admissions*.

Colleges of the Arts and Sciences

The Colleges of the Arts and Sciences is a confederation of 5 colleges: Arts, Biological Sciences, Mathematics and Physical Sciences, Humanities, and Social Behavioral Sciences.

Admission. Requires 48 quarter hours college credit.

Special Academic Programs. Honors program including individualized plans of study. Personalized study program allows students to design their own major programs of study and to engage in interdepartmental majors. Combination curricula enable students in Colleges of Arts, Dentistry, Education, and Medicine and in the Graduate School to earn both a degree in their own college and a B.A. Special 4-year program leads to B.A. and certification of graduate dental hygienist.

Enrollment. *Fall 1970:* Undergraduate 7,700: lower division men full time 1,930, part time 61; lower division women full time 942, part time 63; upper division men full time 3,238, part time 120; upper division women full time 1,278, part time 68. *Summer 1970:* 2,500.

College of the Arts

Admission. In addition to general requirements, music programs require aptitude test and audition on major instrument; dance and theater programs require audition.

Degree Requirements. See general requirements. Offers programs leading to B.F.A., B.Mus., B.Mus.Educ., and B.S.Ind.Des. For all bachelor's degrees: GPA 3.0 in major.

Divisions and Teaching Staff, 1970-71. Art professors 10, associate professors 8, assistant professors 2, instructors 6, additional part-time 5; art education 1.1,3.1,3; dance 1.3,4.3.1; design 3.3.1,0.2; history of art

4.1.3.6.1; School of Music 18.15.16.9.7; theater 3.3.3.2.1. *Total:* 153. Men full time 103, part time 15; women full time 30, part time 5. *Degrees held:* 104 doctorates, 43 master's, 6 bachelor's.

Special Academic Programs. Study-abroad programs in design in England, Japan, and Central Europe; in art in England and France; and in theater in Austria, Czechoslovakia, Russia, and England. Multimedia programs. Interdisciplinary degree programs leading to B.F.A. with concentrations in any 3 departments. University libraries house collection of historical theatrical materials including posters and model stage sets. "Theatre Collection Bulletin" is published annually. The Dance Notation Bureau Extension Center for Education and Research engages in notation research, development of curriculum materials, preparation of notators, and writing and checking of dance scores.

Graduate Work. M.A. degree programs in all divisions and School of Music; M.F.A. in studio art, theater; M.Mus. Doctoral programs are offered leading to Ph.D. in art education, history; music education, history, theory; theater history. D.M.A. in performance.

College of Biological Sciences

Degree Requirements. See general requirements. Offers programs leading to B.A. and B.S.

Departments and Teaching Staff, 1970-71. Biochemistry professors 8, associate professors 2, assistant professors 3, instructors 0, additional part-time 1; biophysics 3.1.2.0.1; botany 7.4.5.0.2; entomology 13.2.2.0.0; genetics 5.1.1.1.1; microbiology 6.8.4.2.0; zoology 10.5.4.0.2. *Total:* 106. Men full time 94, part time 7; women full time 5. *Degrees held:* 72 doctorates, 30 master's, 4 bachelor's.

Special Academic Programs. Bio-Learning Center enables beginning biology students to work independently at any of 194 study carrels, each with 2 microscopes, a slide projector, sink, and remote control tape recorder. Franz Theodore Stone Laboratory at Put-in-Bay, on Lake Erie, offers instructional and research opportunities during summer quarter. College offers interdisciplinary graduate programs in developmental and environmental biology.

Graduate Work. M.S. and Ph.D. degree programs are offered in biochemistry, biophysics, botany, developmental biology, entomology, environmental biology, genetics, microbiology, zoology.

College of Humanities

Degree Requirements. See general requirements. For B.A.: Grade C in each major course.

Departments and Teaching Staff, 1970-71. Classics professors 5, associate professors 2, assistant professors 4, instructors 0, additional part-time 1; comparative literature 0.0.1.2.0; East Asian languages and literatures 2.2.2.2.2; English 14.12.28.12.1; German 5.4.8.5.0; history 17.9.10.18.0; linguistics 2.3.1.0.2; philosophy 5.7.3.1.4; Romance languages and literature 8.6.6.8.4; Slavic languages and literatures 4.4.5.0.0. *Total:* 241. Men full time 185, part time 12; women full time 42, part time 2. *Degrees held:* 164 doctorates, 67 master's, 10 bachelor's.

Special Academic Programs. Division of Black Studies, established 1970, offers interdisciplinary baccalaureate programs. Language programs include language study tours and language residence programs. Linguistics Research Laboratory. Center for Medieval and Renaissance Studies conducts interdisciplinary undergraduate and graduate courses.

Graduate Work. M.A. and Ph.D. degree programs are offered in all departments except comparative literature and black studies; interdisciplinary M.A. in history of science, Latin American studies, philosophy of science.

College of Mathematics and Physical Sciences

Degree Requirements. See general requirements. For B.A. and B.S.: Grade C in each major course.

Departments and Teaching Staff, 1970-71. Astronomy professors 4, associate professors 3, assistant professors 3, instructors 0, additional part-time 0; chemistry 26.5.9.0.1; geodetic science 2.3.1.1.0; geology 10.3.7.0.0; mathematics 19.24.21.3.10; physics 24.13.11.0.2; statistics 2.2.3.0.1. *Total:* 213. Men full time 190, part time 13; women full time 9, part time 1. *Degrees held:* 145 doctorates, 60 master's, 9 bachelor's.

Special Academic Programs. The college offers undergraduate degrees in physiological optics and computer sciences and an interdisciplinary bachelor's degree program in mathematical sciences. All departments have library collections; science departments have extensive research and teaching laboratories. The Department of Astronomy operates jointly with Ohio Wesleyan University the Perkins Observatory at Flagstaff, Ariz. The Department of Geology maintains a field camp in Utah and the Department of Physics has a cooperative high-energy research program with Argonne National Laboratory. The Department of Geology has close ties with the Institute of Polar Studies, which regularly conducts research in the Antarctic.

Graduate Work. M.S. and Ph.D. degree programs are offered in all departments.

College of Social and Behavioral Sciences

Degree Requirements. See general requirements. Offers programs leading to B.A., B.S., and B.Journ. For all bachelor's degrees: Grade C in each major course.

Departments and Teaching Staff, 1970-71. Anthropology professors 2, associate professors 1, assistant professors 5, instructors 0, additional part-time 3; economics 13.7.19.0.3; geography 6.6.2.0.1; political science 6.5.6.6.5; psychology 21.7.10.0.9; School of Journalism 3.8.7.2.2; sociology 14.3.9.1.7; speech 10.4.7.3.2. *Total:* 225. Men full time 180, part time 30; women full time 13, part time 2. *Degrees held:* 153 doctorates, 63 master's, 8 bachelor's.

Special Academic Programs. Interdisciplinary undergraduate majors in international studies and social sciences. The School of Journalism and Department of Speech offer 1-quarter study tours abroad. Extensive library and research facilities in all departments; polimetrics laboratory, behavioral sciences laboratory.

Graduate Work. M.A. degree programs in all departments and in School of Journalism. Doctoral programs are offered leading to Ph.D. in anthropology, economics, geography, political science, psychology, sociology, and speech.

College of Administrative Science

Admission. Requires 48 quarter hours college credit; GPA 2.0.

Degree Requirements. See general requirements. Offers programs leading to B.S. in Bus. Adm. and B.S. in Soc. Wel.

Departments and Teaching Staff, 1970-71. Accounting professors 6, associate professors 5, assistant professors 4, instructors 0, additional part-time 1; Division of Public Administration 6.1.0.0.2; finance 6.8.0.0.2; management science 4.5.5.0.4; marketing 9.4.1.0.0; School of Social Work 7.17.8.3.6. *Total:* 114. Men full time 88, part time 13; women full time 11, part time 2. *Degrees held:* 78 doctorates, 32 master's, 5 bachelor's.

Special Academic Programs. Interdisciplinary B.S. in Bus. Adm. degree program; interdisciplinary M.B.A. degree programs in agribusiness and hospital and health service administration. Noncredit workshops, seminars, conferences, and symposia are offered through the college's Division of Continuing Education comprising the Defense Management Center, Insurance Continuing Education Program, Labor, Education and Research Service, Logistics Management Advancement Program, Management Development Program, and Public Administration Continuing Education Program. New Careers Program, a combined effort of the college and the Columbus Metropolitan Community Action Organization, prepares disadvantaged persons for careers in welfare, corrections, and mental hygiene agencies. 1-quarter International Business Study Tour for study of foreign management practices and business conditions. Research centers include the Center for Business and Economic Research and the Human Resource Research Center.

Graduate Work. M.A. degree programs in business administration; M.Acc. M.B.A.; M.P.A.; M. Social Work. Doctoral programs are offered leading to Ph.D. in accounting, business administration, public administration, social work.

Enrollment. Fall 1970: Undergraduate 2,585; lower division men full time 111, part time 13; lower division women full time 193, part time 10; upper division men full time 1,280, part time 32; upper division women full time 280, part time 5. Summer 1970: 847.

College of Agriculture and Home Economics

Admission. Requires 48 quarter hours college credit; GPA 2.0; 1 CEEB Achievement Test (mathematics) or 5 quarter hours college-level mathematics.

Degree Requirements. See general requirements. Offers programs leading to B.S. in Agr., B.S. in Dairy Tech., B.S. in Food Tech., B.S. in H.E., B.S. in Nat.Res., B.S. in Nutrition, B.S. in Rest.Mgt.

Schools and Teaching Staff, 1970-71. Agricultural economics professors 17, associate professors 8, assistant professors 6, instructors 0, additional part-time 3; agricultural education 14,4,2,0,0; agricultural engineering 12,2,1,1,0; agronomy 15,3,1,0,0; animal science 12,3,5,0,2; Center for Vocational and Technical Education 4,1,0,0,1; dairy science 10,5,1,1,0; dairy technology 3,4,1,1,0; horticulture 9,0,4,0,0; plant pathology 6,1,3,0,0; poultry science 4,1,0,0,1; School of Home Economics 14,13,14,8,1; School of Natural Resources 6,1,2,0,1. *Total:* 227. Men full time 167, part time 8; women full time 51, part time 1. *Degrees held:* 154 doctorates, 64 master's, 9 bachelor's.

Special Academic Programs. Individualized honors programs for students in agriculture, home economics, and natural resources; combined B.S.-M.S. degree program in agriculture. 7-year agriculture-veterinary medicine program leads to B.S. and D.V.M. degrees. Bachelor's and master's degree programs in agricultural journalism are offered in cooperation with the School of Journalism. Dual-degree program offered in cooperation with College of Education leads to B.S. in Agr. or B.S. in Nat.Res. and B.S. in Edu. degrees. Undergraduate program in agricultural engineering is offered jointly with the College of Engineering. College cooperates in teaching and research efforts with the Punjab Agricultural University and the University of Udaipur, India; the University of Sao Paulo, Brazil; and Makerere University, Uganda. School of Home Economics operates a preschool day-care laboratory. 1-quarter study opportunity at Merrill-Palmer Institute, Mich., for home economics students. Barnebey Center, a 985-acre tract of forested land with lodging facilities for individuals and groups, used for instructional research in natural resources. College administers the Ohio Cooperative Extension Service, which provides statewide education programs in agriculture and home economics for adults and youth. Ohio Agricultural Research and Development Center conducts research in all phases of modern agriculture, home economics, and natural resources. Agricultural Technical Institute completed at Wooster, Ohio, in 1972, offers 2-year associate degree programs.

Graduate Work. M.S. and Ph.D. degree programs are offered in agricultural economics and rural sociology, agricultural education, agricultural engineering, agronomy, animal science, dairy science, food science and nutrition, home economics, horticulture, plant pathology, poultry science; M.S. in natural resources. Interdisciplinary doctoral programs are offered leading to Ph.D. in natural resources.

Enrollment. Fall 1970: Undergraduate 2,324: lower division men full time 593, part time 3; lower division women full time 333, part time 14; upper division men full time 763, part time 21; upper division women full time 577, part time 20. Summer 1970: 491.

College of Education

Admission. Requires 97 quarter hours college credit; GPA 2.25.

Degree Requirements. See general requirements. Offers programs leading to B.S. in Educ., B. Art Ed., and B.Mus.Edu.

Divisions and Teaching Staff, 1970-71. Education professors 67, associate professors 35, assistant professors 21, instructors 9, additional part-time 12; physical education (men) 6,7,7,11,2; physical education (women) 5,4,8,9,2. *Total:* 205. Men full time 141, part time 12; women full time 48, part time 4. *Degrees held:* 139 doctorates, 57 master's, 8 bachelor's.

Special Academic Programs. Faculty of Exceptional Children offers master's and Ph.D. degree programs for teachers of the mentally retarded, speech and hearing therapy, and in learning disorders; Ph.D. programs in higher education. College includes School of Health, Physical Education and Recreation. Faculty are developing a center for the study of motivation and human abilities. 6½-week summer workshop in

France for elementary and secondary school French teachers; study tour in Mexico during winter quarter; study tours in Europe, Africa, and Asia during the spring quarter.

Graduate Work. M.A. and Ph.D. degree programs are offered in the School of Health, Physical Education and Recreation and in the Faculties of Curriculum and Foundations, Early and Middle Childhood Education, Educational Administration, Educational Development, Exceptional Children, Humanities Education, Industrial Technology, Science and Mathematics Education, Special Services Education, Vocational-Technical Education.

Enrollment. Fall 1970: Undergraduate 4,969: lower division men full time 299, part time 29; lower division women full time 486, part time 76; upper division men full time 1,217, part time 65; upper division women full time 2,595, part time 202. Summer 1970: 2,529.

College of Engineering

Admission. Requires 45 quarter hours college credit; prescribed curriculum; GPA 2.0.

Degree Requirements. See general requirements. Offers programs leading to B.S.A.A.E., B.S.Agr.E., B.S. in Arch., B.S.C.E., B.S.C.I.S., B.S.Cer.E., B.S.Ch.E., B.S.E.E., B.S.E.P., B.S.I.E., B.S. in Land.Arch., B.S. in Met.E., B.S.M.E., B.W.E.

Departments and Teaching Staff, 1970-71. Aeronautical and astronautical professors 7, associate professors 4, assistant professors 0, instructors 0, additional part-time 1; aviation 1,1,4,2,3; ceramic 4,3,0,0,0; chemical 7,5,1,0,0; civil 9,9,1,0,0; computer and information science 2,5,5,0,2; electrical 29,8,5,1,3; graphics 6,2,2,1,1; industrial 4,5,3,0,2; mechanical 10,4,8,0,5; mechanics 4,4,2,0,4; metallurgical 10,3,0,0,2; mineralogy 4,1,0,0,0; photography 1,3,0,3,1; School of Architecture 8,3,4,1,2; welding 2,2,1,0,0. *Total:* 240 men; full time 214, part time 26. *Degrees held:* 163 doctorates, 67 master's, 10 bachelor's.

Special Academic Programs. Advanced professional engineering programs leading to C.E., E.E., I.E., and M.E. degrees provide postbaccalaureate study for engineering graduates whose interests lie in engineering practice. Special laboratories and research. Engineering Experiment Station supplements laboratory facilities and faculty of the departments; coordinates interdepartmental and interdisciplinary research within the college and with other university divisions. Research is conducted in all academic departments of the college and in the interdisciplinary centers and in special laboratories: aeronautical research, atmospheric science, biomedical engineering, building research, communications and control systems, electronic materials and devices, electro-science, nuclear engineering, radio observatory, refractories research, sonic power, systems research, transportation, and water resources.

Graduate Work. M.S. degree programs in architecture, welding engineering; M.C.P. M.S. and Ph.D. degree programs are offered in aeronautical and astronautical, agricultural, biomedical, ceramic, chemical, civil, electrical, industrial mechanical, metallurgical, nuclear engineering; computer and information science; engineering mechanics; mineralogy.

Enrollment. Fall 1970: Undergraduate 2,342: lower division men full time 708, part time 33; lower division women full time 16; upper division men full time 1,524, part time 44; upper division women full time 16, part time 1. Summer 1970: 347.

College of Pharmacy

Admission. Requires 45 quarter hours college credit; prescribed curriculum; GPA 2.0.

Degree Requirements. See general requirements. Offers programs leading to B.S. in Phar.

Fees, 1971-72. See general description. Laboratory about \$80 a year.

Teaching Staff, 1970-71. Professors 8, associate professors 9, assistant professors 7, instructors 8. *Total:* 32 full time; men 27, women 5. *Degrees held:* 8 doctorates, 10 master's, 1 bachelor's, 13 professional.

Special Academic Programs. Special laboratories for undergraduates to undertake up to 30 quarter hours independent research.

Graduate Work. M.S. degree programs in hospital pharmacy; M.S. and

Ph.D. degree programs are offered in medicinal chemistry, pharmaceutical chemistry, pharmaceuticals, pharmacognosy and natural products chemistry, pharmacology, pharmacy administration, social sciences in pharmacy.

Enrollment. Fall 1970: Undergraduate 233 full time: men 169, women 64. Summer 1970:

College of Dentistry

Admission. For dental hygiene program, 45 quarter hours college credit; prescribed curriculum: GPA 2.0; CEEB Advanced Placement Examination in mathematics; interview; DHAT. For dentistry program, 90 quarter hours college credit; prescribed curriculum: DAT.

Degree Requirements. See general requirements. Offers programs leading to B.S. in Dent.Hyg. and D.D.S. For D.D.S.: 233 quarter hours; GPA 2.0; 1-year residence.

Fees, 1971-72. Full-time tuition for state dentistry students \$300 a quarter, out-of-state students \$650. Part-time tuition (up to 6 hours) for state dentistry students \$150 a quarter, out-of-state students \$350. Laboratory \$20 a year. Textbooks and instruments for freshman year about \$1,300, sophomore \$1,050, junior \$325, senior \$50. Full-time tuition for state dental hygiene students \$240 a quarter, out-of-state students \$590. Part-time tuition (up to 6 hours) for state dental hygiene students \$120 a quarter, out-of-state students \$295. See general description.

Teaching Staff, 1970-71. Professors 21, associate professors 21, assistant professors 42, instructors 25, additional part-time 44. Total: 153. Men full time 102, part time 41; women full time 7, part time 3. Degrees held: 39 doctorates, 47 master's, 3 bachelor's, 64 professional.

Special Academic Programs. Combined degree program with Colleges of Arts and Sciences leads to B.A. and D.D.S. or B.S. and D.D.S. Short courses for practicing dentists. Work experience through Dental Home Care Program for junior and senior dentistry students. Dental assistants' utilization program. In 1971 the college began team-teaching approach to instruction.

Graduate Work. M.S. degree programs in endodontics, oral pathology, oral surgery, orthodontics, periodontics, pedodontics, prosthodontics.

Enrollment. Fall 1970: 758. Undergraduate 162 women full time: lower division 88, upper division 74. First-professional 596 full time: men 594, women 2. Summer 1970: 319.

College of Law

Admission. Requires bachelor's degree from accredited college or university; LSAT.

Degree Requirements. For J.D.: 128 quarter hours; 9 quarters in residence.

Fees, 1971-72. Full-time tuition for state residents \$300 a quarter, out-of-state students \$650. Part-time tuition (up to 6 hours) for state residents \$150 a quarter, out-of-state students \$325. See general description.

Teaching Staff, 1970-71. Professors 20, associate professors 2, assistant professors 1, additional part-time 6. Total: 29. Men full time 22, part time 6; women full time 1. Degrees held: 7 doctorates, 9 master's, 1 bachelor's, 12 professional.

Special Academic Programs. Clinical program enables students to gain experience with governmental agencies. Interdisciplinary seminars are offered. Extended program dealing with legal problems of the poor. Criminal law, civil law, welfare law, juvenile law, and criminal appeals and postconviction remedies practice are utilized to give students actual experience in these fields. Legal internship program.

Enrollment. Fall 1970: First-professional 542: men full time 512, part time 4; women full time 26. Summer 1970: 75.

College of Medicine

Admission. For M.D. program, bachelor's degree from accredited college or university; prescribed curriculum: interview; MCAT. For allied medical professions program, 45 or 90 quarter hours college credit; prescribed curriculum: GPA 2.0; interview. For nursing program, 48 quarter hours college credit; GPA 2.0; interview.

Degree Requirements. See general requirements. Offers programs leading to B.S. All'dHlth.Prof., B.S. in Nurs., and M.D. For B.S. in Nurs.: 9-quarter residence. For M.D.: 216 quarter hours; 3-year program; 3-year residence.

Fees, 1971-72. Full-time tuition for state medical students \$1,200 a year, out-of-state students \$2,600. See general description.

Schools and Teaching Staff, 1970-71. Anatomy professors 5, associate professors 13, assistant professors 7, instructors 4, additional part-time 4; anesthesiology 1.0,5,4.1; medical microbiology 5.4,4.0.0; medicine 22.23.13.2.21; obstetrics and gynecology 6.3,9.7.0; ophthalmology 2.9,3.4.8; otolaryngology 1.1,9.0.1; pathology 6.9,8.4.2; pediatrics 13.17.14.2.30; pharmacology 3.5,2.2.0; physical medicine 1.9,5.1.8; physiological chemistry 4.6,2.1.1; physiology 11.4,8.3.0; preventive medicine 6.4,15.5.3; psychiatry 14.6,11.2.47; radiology 7.3,6.5.1; School of Allied Medical Professions 3.9,11.16.4; School of Nursing 3.13.20.28.9; surgery 11.11.5.1.14. Total: 675. Men full time 391, part time 116; women full time 130, part time 38. Degrees held: 169 doctorates, 209 master's, 13 bachelor's, 284 professional.

Special Academic Programs. In 1970 college shortened length of M.D. programs to 3 years; new curriculum consists of independent study program in the basic medical sciences, in which student progresses at individual rate, followed by a 20-month clinical clerkship. Interdisciplinary Mental Retardation Training Program is the cooperative effort of several university colleges. School of Nursing implemented a new curriculum in 1971, whereby students learn at their own pace.

Graduate Work. M.S. degree programs in all schools and departments except nursing. Doctoral programs are offered leading to Ph.D. in anatomy, medical microbiology, pathology, pharmacology, physiological chemistry, physiology, preventive medicine.

Enrollment. Fall 1970: 1,757. Undergraduate 866: lower division men full time 48; lower division women full time 630, part time 16; upper division men full time 2; upper division women full time 167, part time 3. First-professional 891: men full time 828, part time 3; women full time 59, part time 1. Summer 1970: 1,219.

College of Optometry

Admission. Requires 90 quarter hours college credit; prescribed curriculum.

Degree Requirements. For O.D.: 305 quarter hours; GPA 2.0; 4-year residence.

Fees, 1971-72. Full-time tuition for state residents \$300 a quarter, out-of-state students \$650. Part-time tuition (up to 6 hours) for state residents \$150 a quarter, out-of-state students \$325. See general description.

Teaching Staff, 1970-71. Professors 3, associate professors 2, assistant professors 6, instructors 8, additional part-time 30. Total: 49. Men full time 18, part time 30; women full time 1. Degrees held: 12 doctorates, 15 master's, 1 bachelor's, 21 professional.

Special Academic Programs. Institute for Research in Vision.

Graduate Work. M.S. and Ph.D. degree programs are offered in physiological optics.

Enrollment. Fall 1970: First-professional 181 full time: men 177, women 4. Summer 1970: 25.

College of Veterinary Medicine

Admission. Requires 90 quarter hours college credit; prescribed curriculum; GPA 2.0.

Degree Requirements. For D.V.M.: 228 quarter hours; GPA 2.0; 4-year residence.

Fees, 1971-72. Full-time tuition for state residents \$300 a quarter, out-of-state students \$650. Part-time tuition (up to 6 hours) for state residents \$150 a quarter, out-of-state students \$325. See general description.

Departments and Teaching Staff, 1970-71. Anatomy professors 2, associate professors 2, assistant professors 1, instructors 1, additional part-time 0; clinical sciences 16.9,4.8,4; parasitology 1.1,2.0.1; pathology 6.2,6.0.0; physiology and pharmacology 4.1,0.0.2; preventive medicine 3.0,4.0.0. Total: 80. Men full time 70, part time 6; women full time 3, part time 1. Degrees held: 20 doctorates, 25 master's, 2 bachelor's, 33 professional.

Special Academic Programs. Combined degree program allows undergraduates to concurrently pursue D.V.M. and B.S. in Agr. degrees.

Graduate Work. M.S. degree programs in all departments. Doctoral programs are offered leading to Ph.D. in clinical sciences, pathology, physiology and pharmacology, preventive medicine, veterinary anatomy.

Enrollment. Fall 1970: First-professional 366 full time; men 336, women 30. Summer 1970: 80.

Graduate School

Degree Information. Offers programs leading to M.A., M.S., A.M.A., M.Acc., M.B.A., M.Arch., M.C.P., M.F.A., M.Mus., M.P.A., M. Social Work; D.A.; D.M.A., Ph.D. For specific fields of study, see individual colleges. For fields in which doctorates have been awarded, see Tables 1-8 of Appendix IV.

Teaching Staff, 1970-71. Faculty are drawn from other colleges within the university.

Special Academic Programs. Interdisciplinary graduate programs are offered in biomedical engineering, history of science, philosophy of science, medieval and Renaissance studies, polar studies, and mental retardation. The C.I.C. Traveling Scholar Program enables students to use facilities of participating universities; students may take courses at Big Ten universities and University of Chicago. Under agreement with Miami University, Ohio, doctoral students in some departments may take courses and conduct research at both universities.

Enrollment. Fall 1970: Graduate 7,784; men full time 4,029, part time 1,411; women full time 1,491, part time 853. Summer 1970: 6,336.

Ohio University

Athens, Ohio 45701
Tel.: (614) 594-5511

Ohio University is a coeducational state institution. Programs leading to baccalaureates are offered in 6 colleges: Arts and Sciences, Business Administration, Communication, Education, Engineering, and Fine Arts. Graduate work is offered by the individual colleges and administered by the Graduate College. All freshmen enroll in University College, which also offers 2-year associate degree programs in liberal arts. Ohio University maintains lower division campuses in Belmont County, Chillicothe, Lancaster, Portsmouth, and Zanesville. Curricula in liberal arts and business are offered at extension centers at Ironton and Lockbourne Air Force Base.

Accreditation: NCA; business, chemistry, engineering (chemical, civil, electrical, industrial and systems, mechanical [technical]), journalism (advertising-management, magazine, new-editorial, public relations), music, psychology (clinical), speech pathology, teacher education (elementary, secondary, school service personnel).

History. Chartered 1804; first instruction 1808; first baccalaureate 1815.

Governing Board. 9 trustees; 8 members appointed by governor and approved by state senate for 9-year terms; governor ex officio.

Calendar. Quarter system. Regular session late September to mid-June. Freshmen admitted September, January, March, June, July. Degrees conferred June, December, March, August. Summer quarter of two 5-week terms, late June to late August.

Characteristics of Freshmen, 1970-71. All students: 37% ranked in top fifth of secondary school class, 40% in second fifth, 20% in third fifth, 3% in fourth fifth. Average SAT scores: 492 verbal, 524 mathematical. 2 National Merit Scholars. 82% of applicants accepted. 80% of entering freshmen came from within state.

Admission. Rolling admissions plan. For fall acceptance, applications may be submitted as early as completion of junior year but not later than August 1 of year of enrollment. **Requirements:** Graduation from approved secondary school with 16 units. 3 units English. 2 in a foreign language, 2 laboratory science, 2 social studies, 1 algebra, 1 plane geometry

recommended. For foreign students, TOEFL, CEEB SAT. See specific college for additional requirements. **For transfer students:** GPA 2.0. Maximum credit toward baccalaureate 150 quarter hours.

College credit and advanced placement given for college-level work completed in secondary school on basis of CEEB Advanced Placement Examinations. Secondary school students may enroll in courses at Ohio.

Degree Requirements. For all bachelor's degrees: 180-204 quarter hours; GPA 2.0; 45-hour residence. **Grading system:** A-F; A-C for freshmen; pass-fail option for students with GPA 2.0 in up to 45 quarter hours.

Special Campuswide Academic Programs. Black Studies Institute administers interdepartmental and interdisciplinary programs, independent study, research, and off-campus internships. Cutler Honors Program allows student to design his own curriculum by combination of course work and independent study. Honors College for sophomores, juniors, and seniors with GPA 3.0. Center for International Studies offers certificate programs in African, Asian, or Latin American studies. 1-year study-abroad programs with Bowling Green State University in Spain, France, and Austria; summer programs administered by Ohio University in Italy, Mexico, Greece, and Nigeria; new programs in India and Southeast Asia are being considered. Ohio Fellows Program provides training in public affairs for selected students; participants make field trips, serve two 10-week summer internships, and receive special counseling. Institution sponsors intensive English program for foreign students. Dual-degree program in forestry with Duke University, N.C.

ROTC. Army, Air Force optional for 2 or 4 years. 111 commissions awarded 1970-71.

Graduate Work. Master's and doctoral degree programs are offered by the 6 academic schools through the Graduate College, an administrative unit with no faculty or enrollees. See specific college for fields in which doctorates have been awarded, see Tables 1-8 of Appendix IV.

Degrees Conferred. Year ending June 30, 1971: bachelor's 3,895 (B.A. and B.F.A. 909, B.S. 1,362, B.B.A. 410, B.S.Ed. 1,214); master's 726 (M.A. 188, M.S. 146, M.Arch. 2, M.B.A. 50, M.Ed. 287, M.F.A. 45, M.M. 8); doctorates 108 (Ph.D.). Associates 89. Honorary 4 (D.H.L.). About 675 students awarded baccalaureates each year receive graduate fellowships.

Fees, 1971-72. Full-time tuition for state residents \$220 a quarter, out-of-state students \$570. Part-time tuition for state residents \$24 a credit hour, out-of-state students \$61. Application \$20; health \$16; graduation \$20. Room \$248 a quarter; board \$180. Average rent for institutional married-student housing \$132 a month. See specific college for additional fees.

Student Financial Aid, 1970-71. 3,131 undergraduates received aid. Scholarships and grants 1,930, from \$50 to \$2,874, total \$663,958; applications close February 15 for freshmen, April 15 for others. Loans 2,359, from \$100 to \$1,500, total \$614,626; Work-study, total \$813,581; other college-assigned jobs 4,900, from \$1.60 to \$3.50 an hour, total \$3,400,079.

1,252 graduate students received aid. Scholarships 175, average value \$425, total \$74,400; teaching and research assistantships 830, average value \$2,400, total \$1,804,712; fee waivers 1,005, average value \$720, total \$723,600; federal aid 219, average value \$1,837, total \$402,306; other 28, average value \$570, total \$15,960.

Teaching Staff, 1970-71. Total: 906. Men full time 665, part time 83; women full time 98, part time 60. Degrees held: 506 doctorates, 330 master's, 59 bachelor's, 6 professional.

Enrollment. Fall 1970: 19,420. Undergraduate 16,833; lower division men full time 4,986, part time 101; lower division women full time 4,081, part time 84; upper division men full time 4,221, part time 175; upper division women full time 3,057, part time 128. 82% of undergraduates came from within state. Unclassified 419: men full time 160, part time 83; women full time 116, part time 60. Graduate 2,168: men full time 1,220, part time 406; women full time 434, part time 108. Summer 1970: 5,479. Extension division, 1970-71: 1,244 in classes; 642 in degree-credit courses, 602 in non-degree-credit courses. **Correspondence:** 3,000. Out-of-state enrollment is not limited.

Foreign Students, 1970-71. Undergraduate 226: men 203, women 23. Graduate 178: men 155, women 23. Africa (sub-Saharan) 35, Australia 1, Canada 44, East Asia 94, Europe 15, Latin America 22, Middle East and North Africa 46, South Asia 43, Southeast Asia 102. 35 scholarships